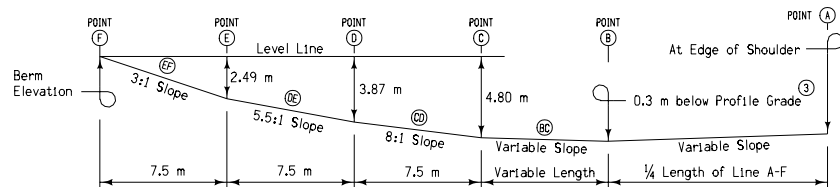


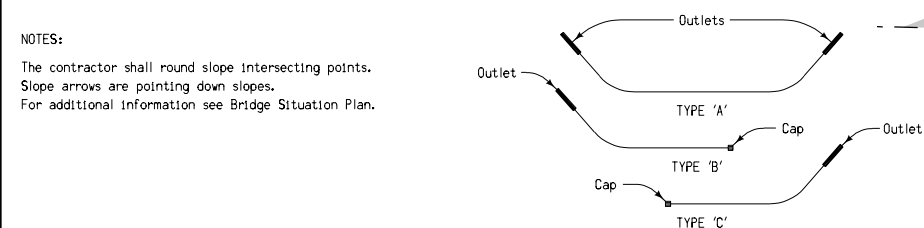
PLAN VIEW OF BRIDGE BERM AREA



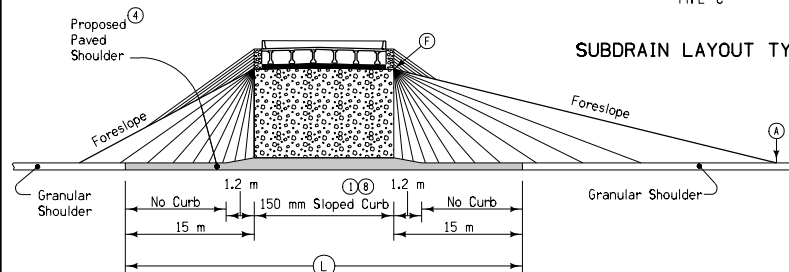
PROFILE ALONG LINE A-F

NOTES:

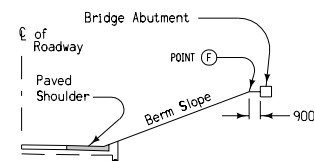
The contractor shall round slope intersecting points.  
Slope arrows are pointing down slopes.  
For additional information see Bridge Situation Plan.



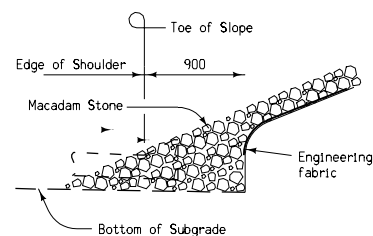
SUBDRAIN LAYOUT TYPES



SIDE VIEW BENEATH BRIDGE

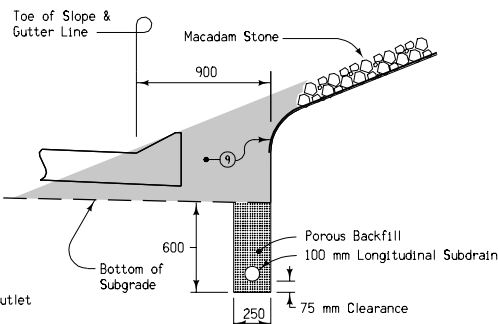


SECTION A-A



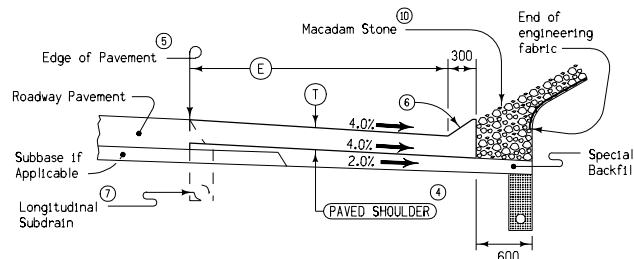
PARTIAL SECTION A-A

As constructed by others



PARTIAL SECTION A-A

Proposed construction



COMPLETED SECTION

GENERAL NOTES:

These drawings illustrate the grading, subdrain and paved shoulder construction details for the area at bridge berms where no side piers exist. All grading shall be as specified for "Embankments" in the current Standard and Supplemental Specifications.

Earthwork for construction of the grading at the bridge berm has been included in the tabulation of earthwork quantities. Drainage structure requirements in conjunction with the grading at the bridge berm has been tabulated elsewhere in the plans.

The cost of removal, stockpiling and placement of the macadam stone shall be considered incidental to other work on this project.

Contract items are:

- Longitudinal Subdrain (Shoulder), 100 mm
- Subdrain Outlet, RF-19E
- Portland Cement Concrete Paved Shoulder
- Special Backfill

- 1 Width of Bridge Slab + 900 mm on each side.
- 2 Refer to Typical 4303 or 4306 for details of foreslope transition for side roads.
- 3 Elevation will vary when the roadway is superelevated; see Bridge Situation Plan for proposed elevation.
- 4 Refer to Detail Sheet 535-1 for details of Paved Shoulder.
- 5 If roadway pavement is newly constructed PC Concrete use 'BT-1' Joint, if roadway pavement is existing PC Concrete use 'BT-3' Joint, see Standard Road Plan RH-51.
- 6 150 mm sloped curb see Typical Drawing 6128
- 7 Roadway Subdrain location, use caution when excavating. Maintain porous material in trench to bottom of roadway pavement.
- 8 Build 150 mm Sloped Curb to bridge width plus 900 mm on each side.
- 9 Remove and stockpile macadam stone. Care shall be taken to keep the macadam stone and the surrounding earth separated. Care shall also be taken to preserve the engineering fabric.
- 10 Place clean macadam stone from stockpile.
- 11 Approximate location of bridge berm subdrain
- 12 Subdrain outlet see Standard Road Plan RF-19E. When flow of subdrain does not require an outlet at both ends, the end without an outlet shall be capped by a method approved by the Engineer. See Tabulation of Subdrains 104-9.

All dimensions given in millimeters unless noted.

METRIC VERSION	<b>M</b>	Iowa Department of Transportation Highway Division	
		<b>STANDARD ROAD PLAN</b>	<b>RL-15</b>
	REVISION: New		REVISION NO. New
	<i>William J. Sten</i> APPROVED BY DESIGN METHODS ENGINEER		REVISION DATE 10-02-01
	CONSTRUCTION DETAILS AT BRIDGE BERMS WITH NO OUTSIDE PIERS (Granular Shoulders)		